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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,402	06/30/2003	Winefred Washington	CX03005USU	1911
34408 7590 06/28/2007 THE ECLIPSE GROUP		EXAMINER		
10605 BALBOA BLVD., SUITE 300			JACKSON, JENISE E	
GRANADA HILLS, CA 91344			ART UNIT	PAPER NUMBER
			2131	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/611,402	WASHINGTON, WINEFRED				
Office Action Summary	Examiner	Art Unit				
	Jenise E. Jackson	2131				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period value of the provision of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailting date of this communication. D (35 U.S.C. § 133).				
Status	•	•				
1) Responsive to communication(s) filed on <u>05 A</u>	Responsive to communication(s) filed on <u>05 April 2007</u> .					
·—						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-15 and 17-27</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-15 and 17-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) I he oath or declaration is objected to by the Ex	taminer. Note the attached Office	Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
. See the attached detailed Oπice action for a list	or the certified copies not receive	·a.				
Attachment(s)	·	•				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-15, 17-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Driscoll(6,763,363).
- 3. As per claim 1, Driscoll discloses an encryption key generator(col. 5, lines 15-17, fig. 1 sheet 1); a data buffer(col. 7, lines 61-67, col. 8, lines 1-5); an input/output register(see fig. 1 sheet 1, fig. 2 sheet 2), and a memory controller that directs digital data to the data buffer with the digital data passing thorough the encryption key generator prior to entering the input/output register(see fig. 1 sheet 1, fig 2 sheet 2, col. 4, lines 30-46).
- 4. As per claim 2, Driscoll discloses a clock(see col. 6, lines 31-34); a key store(fig. 1 sheet 1); and a linear feedback shift register(see fig. 2 sheet 2) generates a pseudorandom bit pattern while the linear feedback shift register is enabled and stores a plurality of bits as at least one key in the key store(see col. 3, lines 46-52, col. 4, lines 31-46).
- 5. As per claim 3, Driscoll discloses where the pseudorandom bit pattern further includes a random number generator that receives the pseudorandom bit pattern from the linear feedback shift register and provides a random number for use by the digital device(fig. 1 sheet 1, fig. 2 sheet 2, col. 4, lines 47-51).

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- 6. As per claim 4, Driscoll discloses pseudorandom bit pattern that creates a bit stream; and a key store that stores portions of pseudorandom bit pattern as keys(see col. 3, lines 46-51, col. 4, lines 30-36, fig. 1 sheet 1).
- 7. As per claim 5, Driscoll discloses including a pseudo random number generator that selects a portion of the pseudorandom bit pattern to be random number (see col. 3, lines 46-64).
- 8. As per claims 6, 27, Driscoll discloses a data mixer mixes the bits of a byte of the digital data(fig. 1 sheet 1); and a combiner(26) that combines the byte with the key(fig. 1 sheet 1, col. 4, lines 30-46).
- 9. As per claim 7, a Driscoll discloses a subkey that creates a sub-key based on data from the memory controller and the key; and a combiner that combines the sub-key with the digital data(col. 7, lines 25-32).
- 10. As per claim 8, Driscoll discloses a data mixer that mixes the bits of a byte of digital data; and a combiner that combines the byte with the sub-key(fig. 1 sheet 1, col. 4, lines 3-46, col. 7, lines 25-32).
- 11. As per claim 9, Driscoll discloses a memory controller that generates a memory request to retrieve encrypted digital data; and encryption circuit with a plurality of key that decrypts the encrypted digital data in response to the memory request of the memory controller(see fig. 1 sheet 1, col. 5, lines 33-55).
- 12. As per claim 10, Driscoll discloses a combiner that combines one of the keys with a bank and row information contained in the memory request that results in a sub-key(fig. 1 sheet 1, col. 4, lines 3-46, col. 7, lines 25-32).

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- 13. As per claim 11, Driscoll discloses a data mixer that unmixes bits within a byte after the sub-key is applied to encrypted digital data(see fig. 1 sheet 1, col. 4, lines 3-46, col. 4, lines 3-46, col. 5, lines 33-55).
- 14. As per claim 12, Driscoll discloses generating at least one key, placing the digital data in a data buffer; and encrypting the digital data using the at least one key while the digital data is being placed(see col. 3, lines 46-64, col. 5, lines 25-32, col. 8, lines 22-32).
- 15. As per claim 13, Driscoll discloses generating of a clock signal(see col. 6, lines 31-34), creating a pseudorandom bit pattern, and storing at least one portion of the pseudorandom bit pattern in a key store as a key(see col. 3, lines 46-51, col. 4, lines 30-36, fig. 1 sheet 1).
- 16. As per claim 14, Driscoll discloses where the pseudorandom bit pattern is generated by a linear feedback shift register(fig. 1 sheet 1, fig. 2 sheet 2, col. 4, lines 47-51).
- 17. As per claims 15, 21, Driscoll discloses generating a random number from the pseudorandom bit pattern(fig. 1 sheet 1, fig. 2 sheet 2, col. 3, lines 46-64).
- 18. As per claim 17, Driscoll discloses selecting a portion of the pseudorandom bit pattern to be used a random number(col. 3, lines 46-54, col. 5, lines 14-24).
- 19. As per claim 18, Driscoll discloses mixing the bits of a byte of the digital data with a data and combining the byte with the key(fig. 1 sheet 1, col. 4, lines 30-46).
- 20. As per claim 19, Driscoll discloses generating a sub-key with data from the memory controller and the key; and combining the sub-key with the digital data(col. 7, lines 25-32).
- As per claim 20, Driscoll discloses mixing the bits of byte of digital data with a data mixer; and combining the byte with the sub-key(fig. 1 sheet 1, col. 4, lines 3-46, col. 7, lines 25-32).

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- 22. As per claim 22, Driscoll discloses generating a memory request to retrieve encrypted digital data; and decrypting the encrypted digital data using at least one key(see fig. 1 sheet 1, col. 5, lines 15-55).
- 23. As per claim 23, Driscoll discloses combining the at least one key with a bank and row information contained in the memory request to generate a sub-key(col. 8, lines 21-63).
- 24. As per claim 24, Driscoll discloses unmixing a byte of encrypted digital data with a data mixer(see col. 5, lines 33-55).
- As per claim 25, Driscoll discloses an encryption circuit with at least one key(fig. 1 sheet 1, col. 5, lines 15-24); a data buffer filled with digital data(see col. 7, lines 60-67, col. 8, lines 1-5), a memory controller that directs and the storage of digital data in the rewriteable memory with the digital data being encrypted by the encryption circuit and the at least one key after the digital data has entered the data buffer but prior to being stored in the rewritable memory(see fig. 1 sheet 1, fig 2 sheet 2, col. 4, lines 30-46).
- 26. As per claim 26, Driscoll discloses a pseudorandom bit stream generator that creates a pseudorandom bit stream; and a key store that stores the at least one key that is selected from the pseudorandom bit stream(col. 3, lines 46-54).

Response to Applicant

27. The Applicant states that Driscoll does not disclose a memory controller that directs digital data to the data buffer with the digital data passing through the encryption key generator prior to entering the input/output register. The Examiner disagrees with the Applicant. Driscoll discloses a memory controller that directs digital data to the data buffer with the digital data

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passing through the encryption key generator prior to entering the input/output register, because Driscoll discloses a linear feedback shift register(LFSR) includes storage elements storing n bits of binary data(see col. 3, lines 49-51). Driscoll discloses the PRNG receiving a key and providing a keystream, the stream cipher cryptosystem includes a cryptographic combiner for combining a first binary data sequence and the keystream to provide a second binary data sequence(see col. 4, lines 31-41). The PRNG receives the encryption key(see col. 5, lines 33-42).

28. The Applicant states that Driscoll does not disclose a memory controller capable of generating a memory control signal that is used to write digital data to rewriteable memory after that digital data is encrypted in an encryption circuit. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Final Rejection

29. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenise E. Jackson whose telephone number is (571) 272-3791. The examiner can normally be reached on M-Th (6:00 a.m. - 3:30 p.m.) alternate Friday's.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 22, 2007

PRIMARY EXAMINES